



Araldite®
Structural Adhesives

Araldite® helps speed production for automotive composites

Case History

Araldite® RTM System to produce automotive composite part in just ten weeks.

Prestige German car manufacturers are recognised for their superb build quality and attention to detail. Every component is carefully designed to the most exacting criteria, including even the most discreet – such as the exhaust diffuser.

Fischer Composite Technology GmbH, based in Austria, work with some of the world's leading high performance automotive manufacturers and were recently commissioned to develop an exhaust diffuser that would meet a demanding list of product characteristics in terms of durability, heat, chemical and environmental resistance, impact strength and would fit with top of the range styling. All this had to be achieved in just 13 weeks from concept to finished production component as well.

Working closely with their established technology partner, Huntsman Advanced Materials, Fischer used an advanced Araldite® Resin Transfer Moulding (RTM) system for the development, prototyping and production of the exhaust diffuser.

The exhaust diffuser is being fitted on a special limited edition of just 600 cars.

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During the Araldite® RTM process to produce the exhaust diffuser, dry pre-formed CFK/GFK fibres are put into a mould and injected with epoxy resin. This visible outer side of the exhaust diffuser has a 12K Twill 2/2 carbon fibre surface. This is protected from UV light and other environmental elements with a tough, high gloss lacquer paint finish.

- **Application:**
high performance composite automotive exhaust diffuser produced in ten week time schedule
- **Special service conditions:**
composite component able to meet high heat, durability, chemical and environmental resistance criteria
- project completion schedule of ten weeks
- **Advantages for customer:**
cost and time efficient one step RTM composite part production
- **Advantages over the competition:**
- class A surface finish on composite part
- good UV light resistance and environmental resistance
- good TG performance
- **Araldite® adhesive used:**
Araldite® RTM System
- **Customer location:**
Salzburg, Austria

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“Working with Huntsman and this special Araldite® RTM process we were able to develop and produce the prototype for this composite part in just ten weeks – and we started production in under 13 weeks from the original customer contact,” said Gerhard Kölbl, Marketing & Sales Manager at Fischer Composite Technology.

“The Araldite® system was ideal for this application because it meets our requirements in TG (glass transition temperature) performance, rapid production schedule and gives a high quality finish that can be painted – and still look good after exposure to heat, exhaust emissions and the elements!

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